FOR MYSORE STATE

P.W (1953) Department.

Ms SERIES.

G.O. NO. 2949

Dated 11.7.53

[Despatch Abstract.]

PORTS - Mangalore - Improvements - Construction of Tide House in connection with model experiments - Revised Estimate for Rs. 15,000/- Approved.

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From:
A. Mudie Esq.,
State Port Officer,
M A D R A S - 1.

To:
The Secretary to Government,
Public Works Department,
M A D R A S - 9.

(1)

X-X-X-

From: The Executive Engineer, P.W.D., South Kanara Division, Madras.
To : The State Port Officer, Madras.
No.807 M dated 1st April 1953.

Sub: Constructing a tide house - Revised Estimate - Forwarded .

I forward herewith a revised estimate amounting to Rs.15,500/- for constructing a tide house in connection with the model experiments for Mangalore Port improvement for your counter-signature and for obtaining the sanction of Government and return to me for my technical sanction.

The necessity for revising the original estimate sanctioned in G.O.Ms.No.405 dated 1-2-52 communicated in your No.4115 GI/50-51 dated 5.2.52 is explained in detail in the report accompanying the estimate.

A fresh plan of the tide house as executed showing the additional works done is also herewith enclosed.

I solicit early action in the matter.

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/True copy/

STATE PORT OFFICER.

PPS/29.4.

Report to accompany the revised estimate for "Constructing a House in connection with improvements to Mangalore Port".

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STATE PORT OFFICE 4 APR 1953 MADRAS

Amount of original Estimate DR No.114/51-52	Rs. 5250/-
Amount of Revised Estimate	Rs. 15,500/-
Amount requiring sanction	Rs. 10,250/-

The original estimate for the above work approved in G.O.No. PS 405 dt. 1-9-52 and sanctioned in D.P.No.114/51-52 is now revised for the following reasons:-

1. The original estimate provided only for a rate of Rs.7-8-0 per C.ft. of Kirol Bogi wooden piles of 12" dr. and 15'-0 long. Piles of this size were not available locally and had to be brought from Karkal on a rate of Rs. 9 per Cft.

2. The work was done during the South West Monsoon season of 1952 and the site of work was in an out of way place and nobody was willing to take up the work. The Director, Central Water and Power Research Station, Poona wanted the work to be completed as quickly as possible and hence this had to be done partly by employing departmental labour and partly by job work. The rates worked out based on actuals were higher than those provided for the original estimates.

3. The length of approach gang way is 30'-0" in the original estimate. During the floods of August 1952 the bed of the river at site and also the bank of the river were considerably erroded and the gang way had to be extended by another 36 feet to reach the bank thereby necessitating additional materials and labour.

4. The Officer Surveyor, Survey of India, Dehradun who came for installation of the Tide gauge wanted the following additional works to be done for installing the 'Wege' type of automatic Tide gauge brought by him.

(a) Inserting an additional iron pipe 12" dr. into the existing 24" dr. R.C. Pipe, fixing it in position and blocing the bottom holes in the R.C. pipe to reduce the swell action to a minimum.

(b) A teak wood table 3'-0" x 3'-0" x 2'-6" mounted on angle iron welded frame for fixing the instrument.

These are additional works not contemplated in the original estimate.

5. After the heavy floods on 24-8-52 it was found on examination that the bed of the river under the piles has erroded to a depth of 5 feet and in order to prevent further erroision and to protect the structure a triangular wooden cut water of size 12'-0" x 7'-0" x 7'-0" sides was fixed to the upstream side of the tide house at bed level and this was filled up with sand bags. This served to divert the velocity of water and also gradual silting up of the bed at the site.

This is also an additional work not contemplated in the original estimate.

6. A rate of Rs.2-8-0 per running foot for driving 12" dr. piles only was provided in the original estimate. The piles were driven in the bed of river where there was 30 feet depth of water and that too during monsoon Special big size country boats had to be hired out for erecting derrick posts for driving the piles in compact sand with a 1/2 a ton monkey. Special Hopolah labourers

P.T.O.

(6)

at special rates brought from Feroke, had to be engaged for this work as the local ~~xxx~~ labourers were found to be not suitable for the purpose. Each was driven to a total depth of 12'-0" below bed of river (before erosion of bed). It was found not possible to drive the piles below 3'-0" by hammering with monkey and hence the balance portion was driven by applying water jets.

The splicing of piles and about 50% of the bracing work had to be done under water and during sot with helmets were to be hired out for the purpose.

Provisions for all these unforseen extra items of work were not made in the original estimate.

7. The whole frame work of the structure was built with wooden scantlings fitted and bolted together by iron bolts and nuts of several sizes and no adequate provision for this was made in the original estimate, the provision made in the Revised Estimate is based on actuals.

27/12

Executive Engineer,
South Kanara Division.

MK 10/3/

27/3

Constructing a tide house in connection with improve-
Mangalore Port.

(7)

DETAILED ESTIMATE. 384,306—24-10-31. G.P. Press.

District — Taluk

Village and Survey — Date and cost of original construction

Name and number of work — Date and cost of last repairs

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1. Supplying at site piles made of Kirol bogi wood 12" Dr.	18	15'-0" x 22 x ¼ x ¼				212.15 Cft.
1(a) Suppying at site of works 4" square Kirol bogi piles (as per actuals) P 28 of M. Book 148	8	14'-0	4"	4"		12.44
	2	17'-0	4"	4"		3.78
	2	6'-0	4"	4"		1.33
	5	4'-0"	4"	4"		2.22
	2	9'-0	4"	4"		2.00
	2	7'-0	4"	4"		1.56
P. 29/148	1	16'-0	4"	4"		1.78
P. 31/148	5	18'-0	4"	4"		10.00
P. 83/147	1	17'-0	4"	4"		1.89
	4	16'-0	4"	4"		7.11
P.88/147	3	14'-0	4"	4"		4.67
P.47/199	1	12'-0	4"	4"		1.33
	2	5'-3"	4"	4"		1.17
P.27/148	4	10'-0	4"	42		4.44
	2	13'-0	4"	4"		2.89
Total						58.61 Cft. or 59 Cft.
2. Driving 12" dr. piles with necessary appliances to 12 ft. depth under water. As per original estimate DR No. 114/51-52	108 Rft.	=				108 Rft.
3. Driving 4" square piles to the specified depth with necessary appliances -- (as per actual depth driven)						
Gang warf piles nearest to tide house	2	9'-6"		19		
Piles row Nos. 2 to 9	16	9'-0		144		
Last pile	2	5'-0		10		
Protection piles	5	5'-0		25		
				198		or 198 Rft.

p.t.o.

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
(4) Country wood (Kirol bogi) Wrought and put up for superstructure.						
As per actual work done on job work P.4 of M. Book 199 (excluding piles leads						87.52 Cft.
As per actuals carried out departmentally splicing bars for 4" sq.piles	18	4'-0	0'-4"	0.3"		6.00
Beams across gang way piles	12	11'-0"	6"	0-3"		16.50
-do-	2	7'-0	6"	0-3"		1.75
Gangway platform Execusion	1	26'-0"	3'-0"	0-1"		6.50
Gang way Hand rails	8	11'-0"	0-3"	0-2"		3.67
Cross pieces for gang way piles	12 x 4	4'-0"	0-3"	0-2"		8.00
Cross beam at the end of gang way	1	5'-6"	6"	0-3"		0.69
						130.63 or 131 C
(4)a. Country wood wrought and put up for pile heads projecting above platform.						
As per actuals page 6/199						30.93 or 31.00 Cft.
(5) Providing and fixing in C.W.frames cement asbestoes (Plain) side walls including cost of wood, seven nails, bolts etc.						
As per actuals west and east side (P.8 of 199)	2	2'-0½" 10'-2"	9'-0"			183.00
Deduct for windows	2	3'-6½"	4'-1½"	29.22		
Add South and North side	2	10'-2"	8'-10"			179.61
Deduct door	1	3'-0"	6'-0"	18.00		
Add gables	2	10'-2" / 2	3'-8"			37.28
Total				47.22		399.89
Net total 399.89 - 47.22				=	352.67	or 353 Sq.ft.
(6) Providing and fixing corrugated cement asbestoes sheet roofing with necessary screws.				---	Nil.	
(6) a. Providing and fixing Asbestoes cement Trafford sheets roofing with necessary screws etc. As per actuals P. 9/199	2	13'-6"	9'-0"			243 243 Sq
(7) Providing and fixing door with two shutters of cement asbestoes sheet fixed in C.W. frames complete with hold fasts furniture, bolts screws etc. of size 3'-0" x 6'-0"	1					1 No.

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
(8) Providing and fixing windows with shutters of glass panels fixed inC.W. frame and with all necessary fittings of size 4'-1½" x 3'-6½"						
As per original estimate	2				2 Nos.	2 Nos.
(9) Providing a R.C. Hume pipe float well 2" ~~dr.~~ internal diameter and 1½ thick run with specified holes size, flanges etc. complete in 3 pieces.	1 No.	15'-0"			15 Rft.	15 Rft.
(10) Fixing the float well of size 2'-0" dr. and 15'-0" long, in position as specified on sketch with iron brackets, bolts etc. with all other necessary fittings for safe suspension.					1 No.	1 No.
(11) Providing iron shoe 1'-3" long for all the piles with necessary screws for fixing to the bottom shoes for 12"dr. piles.	9				9 No.	9 No.
(12) Tarring two coats all piles and wood work. As per original estimate DR No.114/51-52.					2200 Sq.ft.	2200 Sq.ft.
(13) Splicing of piles 12" dr. for joining the top and bottom No. of joints of splicing	9				9	9 Nos.
(14) Fixing all the braces with bolts and ~~nuts~~ nuts including all other fittings with bolts and screws No. of joints with piles and braces	42				42	42 Joints.
(15) Unforeseen item			------		Nil	--
(16) Fixing one 12 ft. length pipe 1'-0 Dr. cut from 22'-0" pipe, scraping and painting both inside and out side with red ~~oxide~~ paint 2 coats making a flange and welding ~~it~~ it to pipe at one end and ~~a~~ closing the bottom of pipe with ~~iron~~ ironplate and fixing necessary clumps at bottom and top including all conveyance changes complete As per ~~estimate~~ actuals					L.S.	L.S.

(10)

DETAILED ESTIMATE. 384,306—24-10-51. G.F. 150 (1).

District Taluk

Village and Survey Date and cost of original construction

Name and number of work Date and cost of last repairs

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
(17) Manufacturing one 3' x 3" x 2'-6" Teakwood top table with 2" x ¼" angle iron welded frame with 2 Nos. of 1½" x 1½ angle iron members welded to it and fixing the table with bolts and nuts to the floor of the tide house. As per actuals.					L.S.	L.S.
(18) Making one triangular bore of base length 12'-0" and adjacent sides 7'-0" each and height 5'-0" with mango planks 3" thick including wooden reepers needed to the bottom and also fixing angle iron spikes 4'-0 long 6 Nos. and 2 Nos. triangular iron plate shoes to bottom conveyance 16 sameto site of work and fixing in position and filling the same with sand bags. As per actuals.					L.S.	L.S.
(19) Hire charges for diving ~~dress~~below to 2 Nos. with weighing down cleams, Hoses, Compressor and engine complete for 36 days No. of days (actuals)	36				36	36 days.
(20) Hire charges for M.F.S. Water pump for 4 days and 3 hours used for water jets for driving 12'Dr. piles As per actual --					L.S.	L.S.
(21) Hire charges for 2 Big country boats and on small boat. 8-5-52 to 14-6-52	38 days				38	38 days.
(22) Petrol for motor oil charges for diving set engin As per actuals petrol	52 gals.		cost	175-15-6		
M.Oil	5 gls.			38- 3-0		
Total				214- 2-6	or Rs. 214/-	

p.t.o.

(11)

Abstract Estimate.

C.F. 150. (2).

Quantity. (1)	Description of work. (2)	Item number in the schedule of rates. (3)	Rate. (4)	Per (5)	Total. (6)	Amount. (7)
			Rs. A. P.		Rs. A. P.	Rs. A. P.
23.	Providing thatched shed on the sand spit and at Marine yard for storing materials and for carpenters to work including cost of materials L.S. (as per actuals)				150 0 0	
24.	Cost of bolts and nuts of several sizes, ~~xxx~~ washers. paint, G.I. ~~xxxxx~~ couplings etc. for water jet coir rope tying derricks and scaffolding and casurna and bamboo poles purchased for scaffolding. As per actuals Bolts and nuts Bamboos. Coir rope Casurina poles				647 0 0 76 2 0 146 9 9 97 14 3	
	Total				967 10 0	or Rs. 968/-
25.	Driving casurna poles at the site where gangway joins the bank to prevent the sand from sliding (As per actuals) cutting & pointing casurna pols 41 Nos. cost				33 12 0	
	Driving casurna in compact sand	P.34/193 P.9/202		40 Rft. 99 Rft.	55 0 0 106 0 0	
	Cost of 451 Rft. casurna Conveyance	P.48/199			85 14 3 5 0 0	
					235 10 3	or Rs. 236/-
26	Conveyance of materials from marine yard to work site, filling in and levelling bank etc.			L.S.		
	Supervision charges at 5 per cent.					
				Grand total, Estimate		

Divisional officer (or other countersigning officer to be named).

Signature and designation of the officer submitting this estimate.

Sanctioned for 19 -19

Collector or other sanctioning officer (to be named).

Tahsildar or other officer (to be named).

Executive Engineer,
South Kanara Division

B 27/3

C.F. 166 (2)—342,006—24-10-51.

District

Taluk

Village No.

Name of Work No.

ESTIMATE ABSTRACT.

Budget head

Main head

Sub-head

Amount of estimate

Sanction number and date

To be carried out by

with reference to P 13 of (U)

ESTIMATE FORM.—Comparative Statement of Differences. P.W.D. V-18 (Inner)) 64,179—3-6-49.

Description of work. (1)	Item No. (2)	Original estimate. Quantity. (3)	Rate. (4)	Amount. (5)	Revised estimate. Quantity. (6)	Rate. (7)	Amount. (8)	More. (9)	Less. (10)	Explanation of difference (11)
			Rs.	Rs.		Rs.	Rs.			
Revised Estimate: Constructing a Tide-house in connection with Improvements to Mangalore Port.										
Supplying at site piles made of Kirol bogi of the Specified sizes	1	234 Cft.	7-8-0	1755	--	--	--	--	1755	
Supplying Kirol bogi wooden piles 12" dr.	1(a)	--	--	--	212.15 Cft.	9-1-0	1922	1922		As per actuals
Supplying at site 4" square Kirol bogi piles.	1(b)	--	--	--	59 Cft.	6-1-6	360	360		Vide detailed sheet As per actuals
Driving 12" dr. piles with necessary appliances to 12 feet depth in compact sand under water	2	108 Rft.	2-8-0 Rft.	270	108	11-1-0 Rft.	1195	925		Excess due to excess in rate as per data sheet based on actuals
Driving 4" square piles to the specified depth with necessary appliances	3	85 Rft.	1-8-0 Rft.	128	198	1-9-0 Rft.	309	181		Quantity as per actuals vide detail sheet excess due to extra piles for extended gang way and piles are driven deeper.
Country wood Kirol bogi wrought and put up for superstructure etc.	4	106 Cft.	10-0-0	1060	131 Cft.	10-0-0	1310	250		Extra quantity for extension of gang way and extra beams provided for main structure vide detailed sheet.
C.O.				3213			5096	3638	1755	

p.t.o.

(13)

ESTIMATE FORM.—Comparative Statement of Differences.

P.W.D. V-18 (inner)—64,179—3-6-49

Description of work. (1)	Item No. (2)	Original estimate. Quantity. (3)	Rate. (4)	Amount (5)	Revised estimate. Quantity. (6)	Rate. (7)	Amount. (8)	More. (9)	Less. (10)	Explanation of difference. (11)
			RS.	RS.		RS.	RS.			
B.F.				3213			5096	3638	1755	
Country wood wrought and put up for works done on 12" dr. piles projecting above floor level(excluding cost of wood)	4(a)	--	--	--	31.00 Cft.	4-0-0	124	124		Quantity as per p.6e of MB 199. Rate as per rate approved in Dl. No.263 P dt.26-2-52
Providing and fixing in C.W. frames cement asbestos side walls	5	300 Sqft	72 / 100 Sqft	216	353.00 Sqft.	136-11-0 / 100 Sft.	482	266		for wood work quantity as per actual P 10/199. Rate based on actuals as per data sheet.
Providing and fixing corrugated cement asbestos sheet roofing with necessary screws	6	200 Sqft	100 / 100 Sqft.	200	--	--	--	--	200	Trafford sheetswere used instead of corrugated sheets. Quantity as per actuals P 9/199. Rate based on actuals worked out (vide data sheet)
Providing and fixing A.C. Trafford sheets roofing with necessary screws.	6(a)	--	--	--	243 Sqft.	131-4-0	319	319		
Providing and fixing door with two shutters of cement asbestos sheets fixed in C.W. frames complete with hold fasts furniture bolts, screws etc. of size 3'-0" x 6'-0".	27	1 No.	36.00	36	1 No.	72	72	36		Rate based on actuals worked out T.W. frames were used instead of C.W. and steel furniture was used.
				3665			6093	4383	1955	

--3--

P.W.D. V.-89—1,54,950—20-6-53

Data Sheet to accompany the estimate for Constructing a tide house in connection with improvements to Mangalore Port.

Quantity.	Description of work.	Rate. Rs.	A.	P.	Per.	Amount. Rs.	A.	P.	Total
	1. Supply of Kirol bogi wooden piles 12' dr. at site of work.								
1 Cft.	Wooden piles 12' Dr. as per rate approved in Dl.No. 154 P/3-6-52	9	0	0	1Cft.	9	0	0	
1Cft.	Head from Marine yard to work site 1 mile boat	3	12	0	100 Cft.	0	0	7	
						9	0	7	or 9-1-0
	1a) Supply of Kirol bogi wooden piles 4" square at site of work								
1Cft.	Kirol bogi wood as per rate approved in Dl. No.102/23-3-52	6	0	0	1Cft.	6	0	0	
1Cft.	Head 1 mile by road	5	10	0	100	0	0	11	
"	1 mile by boat	3	12		Cft. 100'	0	0	7	
						6	1	6	or 6-1-6
	2. Driving 12" dr. piles in compact sand in the bed of river under water with necessary appliances to 12'-0" depth.				9 Nos.	pile each 12'-0" 108 ft.			
	Data based on actuals.								
108	ft. Labour charges.					941	0	0	
	Cost of 158 lbs. M.S.flats for clamps					31	12	0	
	Manufactury charges for above					69	0	0	
	Pointing and fixing shoes to piles					111	4	0	
	Manufacture of ½ ton wooden monkey					43	13	3	
						196	13	3	or 1197-0-0
	Rate per Rft. 1197/108	11	1	0					or 11-1-0
	3. Driving 4" square piles to the required depth including pointing As per actuals 198 Rft.								
	Labour charges as per actuals					285	0	0	
Rft.	Cost of reepers for Keeping the piles erect.					7	9	9	
	Pointing charges					19	8	0	
						310	1	9	or 310-0-0
	Rate per Rft. 310/198	1	9	0					or 1-9-0

p.t.o.

P.W.D. V.-89—1,84,950—20-4-53

(17)

Data sheet to accompany the estimate for _____

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Quantity.	Description of work.	Rate.	Per.	Amount.	Total
		Rs. A. P.		Rs. A. P.	
	4. Country wood (Kirol bogi) wrought and put up for superstructure				
1Cft.	Rate as per original estimate	-		10 0 0	10-0-0
	4(a)Country wood wrought and put up for portions of piles projecting above floor level of tide house				
1 cft.	As per rate approved in Dl.No.263 P/ 26-7-52	4 0 0	1Cft.	4 0 0	or 4-0-0
	5. Providing and fixing in C.W. frames cement asbesto sheets for side walls including all scres etc. data based on actuals P 10/199 Totalquantity 352.67 sq.ft.				
	wood work for frames 36 Nos.x 10 x 2½" x 3"	= 18.75 Cft.			
432 Sqft.	Asbestos purchases S.T.	0 7 6	1Sq. ft.	202 8 0 3 2 9	
	Conveyance			3 0 0	
18.75 Cft.	Wood	6 0 0	1Cft.	112 8 0	
18.75 Cft.	Conveyance, 1 mile road and 1 mile boat	9 6 0	100 Cft.	1 12 0	
352.67 Sft.	Labour charges for fixing as per rate approved in Dl.No.263 P dt. 26-7-52	0 6 0	1 Sqft.	132 4 0	
	G.I.Screws, washer, bolts and nuts as per actuals			27 2 0	
				482 4 9	or 482
	Rate per 100 Sq.ft. $\frac{482 \times 100}{352.67}$ =				136-11-0
	6. Providing and fixing A C trafford sheets for roofing				
	As per actuals P9/199 = 243 Sqft.				
880 3 sq.ft.	Cost A C sheets purchased S.T.	0 7 9	1 Sq.ft	142 0 9 2 3 6	
	Conveyance			3 0 0	
5 Nos.	Cost of ridges S.T.	4 8 0	each	22 8 0 0 5 6	
6 Nos.	Barge boards S.T.	9 0 0	"	54 0 0 0 13 6	
	Cost of 2 finials			10 2 6	
	conveyance			3 0 0	
	Labour charges rate Dl.No. 26-7-52	6 4 0	1Sft.	60 12 0	
	Cost of L. Hooks			20 5 0	

p.t.o.

P.W.D. V.—89—1,54,850—10-8-54

(18)

Data sheet to accompany the estimate for———— ——

Quantity.	Description of work.	Rate.	Per.	Amount.	Total
		Rs. A. P.		Rs. A. P.	
	Rate per sq.ft. $\frac{319 \times 100}{243}$				
	=	131-4-0		319 2 9	or 319-0-0
	7. Providing and fixing door with two shutters of cement asbestos sheets fixed in frames complete with hold fast etc. of size 3'0" x 6'-0" wood work vertical				
	2 x 6'-0" x 3" x 4"			1 0 0	
	Honsarlats 2 x 3'-0" x 4" x 3" Horizontals			0 5 0	
				1 5 0	
	Teak wood for shutters as per actuals	1.26 Cft.			
1.5 Cft.	C.W.	6 0 0	1 Cft	9 0 0	
1.26 cft.	T.W.	17 0 0	1 Cft.	21 6 9	
2.76 Cft.	Conveyance as above	9 6 0	100 Cft.	0 4 2	
18 Sft.	Labour charges	1 0 0	1 Sqft.	18 0 0	
	Brass furniture and fittings (actuals)			23 10 0	
				72 4 11	or 72/-
	8. Providing and fixing windows with shutters of glass panes fixed in C.W. frame work including all furnitures of size 3'-6½" x 4'-1½"				
	Cost of two windows 2 x 3'-6½" x 4'-1½" as per actuals			= 29.22 sqft.	
1.77 Cft.	Teak wood	17 0 0	1 Cft.	30 1 5	
1.77	Head as above	9 6 0	100 Cft.	0 2 8	
29.22 Sq.ft.	Labour charges	1 0 0	1 Sqft	29 4 0	
16 Nos.	Glass panes and sales tax			28 7 0	
	Furniture and fittings (brass) as per actuals			32 0 0	
				119 15 1	or 120/-
	9. Providing R.C. Hume pipe float well of size 2'-0" internal diameter and 1½' thick run with specified holes size. flanges complete in 3 pieces				
15 Rft.	cost as p 77/146	250 0 0	1 No.		
	S.T.	2 14 6		252 14 6	
	Conveyance to site			20 0 0	
				272 14 6	or 273/-

p.t.o.

P.W.D. V.--39--1.54.860--20-6-51

19

Data sheet to accompany the estimate for——————

Quantity.	Description of work	Rate. Rs.	A.	P.	Per.	Amount. Rs.	A.	P.	Total
	10. Fixing float wall in position as specified in sketch etc.								
1 No.	As per rate approved in Dl.No.263 P/26-7-52				each	400	0	0	
2.75 Cft.	Cost of wooden beam at	6	0	0		16	8	0	
"	Head as above	9	6	0		0	4	2	
	Cost of ~~any~~ angle for clamp					66	9	0	
						483	5	2	or 483/-
	11. Providing iron shoe 1'-3" long for 12" dr. piles with necessary scres for fixing it to bottom								
1 No.	As per rate approved in Dl.No.172 P/13-5-52 P 26/148.	9	0	0	each	9	0	0	or 9-0-0
	12. Tarring two coats								
100 Sq.ft.	Rate as per original estimate.	7	0	0	100 sqft	7	0	0	or 7-0-0
	13. Splecing of piles 12" dr. for joining the top and bottom ones - As per actuals - cost of 9 No.Splecing								
9 No.	Splecing or joints- P.17 of ~~xxxx~~ 193 rate approved in Dl.No.214 P/11-6-52	90	0	0	each	810	0	0	
12 Cft.	Cost of wood for splecing bans	6	0	0	1 cft.	72	0	0	
"	Head as above	9	6	0	100 Cft.	1	2	0	
72 No.	Bolts and nuts 1'-9" x 1" Dr.	4	8	0	each	324	0	0	
23 Nos.	" " 2' x 1" dr.	4	14	0	-	112	2	0	
	Total					1319	4	0	or 1319-4-0
	Rate for 1 joint 1319-4-0 / 9 = 146-9-4								
	14. Fixing braces with bolts and nuts including all other fittings - As per ~~sections~~ actuals 42 bracing ~~xxxx~~ joints. (wood)								
	Cost of bracing bars 8 No. x14' x 6" x 3'					14	0	0	
	12 No.x1'-0"x6"x 3"					16	5	0	
						~~30~~	~~5~~	~~0~~	
						30-5-0			p.t.o.

P.W.D. V.-32—1,84,860—30-6-54.

Data sheet to accompany the estimate for

Quantity.	Description of work.	Rate.			Per.	Amount.			Total
		RS.	A.	P.		RS	A	P.	
30.5 Cft.	Cost of wood	0	6	0	0 1 Cft.	183	0	0	
	Head as above		9	6	0	2	13	11	
42 Joints	Labour charges as per rates approved in Dl. No.214 P/11-6-52		16	0	0 Joint	672	0	0	
8 Nos.	Bolts and nuts 2'-3" x 1"		5	4	0 each	42	0	0	
20 "	" " 1'-3" x 1" Dr.		3	12	0 "	75	0	0	
2 Nos.	" " 8" x 3/4" dr.	1	15	0	"	3	14	0	
	M.S. flat 1 No.					18	7	0	
78 No.	Washers		0	2	0 each	9	12	0	
	Total					1006	14	11	or 1007/-
	15. Fixing one 12'-0" length iron pipe 1'-0"dr cut from 22'-0" pipe scraping and painting ~~both~~ inside and out side with ~~red~~ inside paint 2 coats making a flange and welding it to pipe at one end and closing the bottom of pipe with iron ~~xxxxxxxxxxxxxxxxxx~~ plate and rubber washer and fixing necessary clamps at bottom and top including conveyance charges complete.								
1 No.	As per rate approved in Dl.No. 363 P/14-10-52	344	0	0	1 No.	344	0	0	
14 lbs.	Red oxide paint (1 gallon)	18	0	0	Gl.	18	0	0	
	Total					362	0	0	or 362-0-0
	17. Manufacturing one 3' x 3' x 2'-6" teak wood top table with 2' x ~~x~~ 1/4" angle iron frame welded with 2 Nos. of 1½' x 1½' angle iron members welded to it and fixing the table with bolt and nuts to the floor of the tide house.								
1 No.	Rate as per approved in Dl.No.363 P dt. 14-10-52	106	0	0	1 No.	106	0	0	
1.62	Teak wood cost	17	0	0	1 cft.	27	8	8	
	Head as above	9	6	0	100 Cft.	0	2	4	
	Screws etc. (actual)					3	15	0	
						137	9	0	or 138-0-0

p.t.o.

P.W.D. V.—89—1,54,650—16-6-55

21

Data sheet to accompany the estimate for_____

Quantity.	Description of work.	Rate.	Per.	Amount.	Total
		Rs. A. P.		Rs. A. P.	
	18. Making one triangular box of base length 12'-0" and adjacent sides 7'-0" each and height 5'-0" with mango planks 3" thick including wooden reepers nailed to the bottom and also fixing angle iron spikes 4'-0" long 6 Nos. and Nos. triangular non-plate shoes to bottom conveyance to site and fixing ~~xxx~~ in position and filling with sand bags complete.				
1 No.	As per rate approved in Dl. No.365 Pdt.15-10-52	404-0-0	1 No.	404 6 0	
2 Nos.	Cost of empty cement bags	60 0 0		60 0 0	
				464 0 0	or 464-000

Certified that the leads are correct.

Executive Engineer,
South Kanara Division

7/8

8/6
27/3

ESTIMATE FORM.—Comparative Statement of Differences.

P.W.D. V-18 (nner)) 64,172—3-6-...

Description of work. (1)	Item No. (2)	Original estimate. Quantity. (3)	Rate. (4)	Amount. (5)	Revised estimate. Quantity. (6)	Rate. (7)	Amount. (8)	More. (9)	Less. (10)	Explanation of difference (11)
			Rs.	Rs.		Rs.	Rs.			
R.F.				3665			6093	4383	1955	
Providing and fixing windows with shutters of glass panels fixed in C.W. frames works with all necessary fittings of Sr size. 4'-1½" x 3'-6½".	8	2 Nos.	51-0-0	102	2 Nos.	60-0-0	120	18		T.W. frames were used instead of C.W. and all brass fittings. Hence excess.
Providing R.C. Hume pipe float well 2' internal diameter and 1½" thick and with specified holes sizes and shape	9	15 Rft.	10-0-0	150	1 No. of 15 ft.	273-0-0	273	123		Rated as per actuals worked out. P.77/146
Fixing float well in position as specified in sketch with iron brackets bolts etc. all other necessary fittings for safe suspenseion.	10	L.S.	--	200	1 No.	483-0-0	483	283		As per actuals. Data worked out separately in support of rate.
Providing wrought iron shoe 1'-3" long for the piles with necessary screws for fixing to the bottom.	11	L.S.	--	275	9 Nos.	9-0-0	81	--	194	As per actuals Page 26/146.
Tarring all piles and wood work with coal tar 2 coats.	12	2200 Sqft.	7-0-0 per 100 Sqft.	154	2200	7-0-0	154	--	--	
C.O.				4546			7204	4807	2149	

p.t.o.

(22)

ESTIMATE FORM.—Comparative Statement of Differences.

P.W.D. V-18 (inner)—64,179—3-6-49

Description of work. (1)	Item No. (2)	Original estimate. Quantity. (3)	Rate. (4)	Amount (5)	Revised estimate. Quantity. (6)	Rate. (7)	Amount. (8)	More. (9)	Less. (10)	Explanation of difference. (11)
			Rs.	Rs.		Rs.	Rs.			
B.F.				4546			7204	4807	2149	
Splicing of piles more than 14 feet in length with C.W. battens and bolts.	13	L.S.	--	100	9 Nos 12"DR. piles	146-9-4 each	1319	1219	--	As per actuals. The work was done under water vide Data attached
Fixing all braces with bolts and ~~units~~ nuts including all other fittings with bolts and screws.	14	L.S.	--	200	42 joints	24-0-0	1008	808	--	Rate based on actuals Vide data sheet.
Unforeseen items	15	L.S.	--	157	--	--	--	--	157	
Fixing one 12'-0" length iron pipe 1'-0" dr. cut from 22'-0" pipe scraping and painting both inside and outside with red oxide paint 2 coats, making a flange and welding it to pipe at one end and closing bottom of pipe with iron plate and rubber washer and fixing necessary alamps at bottom and top including conveyance charges complete.	16	--	--	--	1 No.	362-0-0	362	362		Additional work done as per officer surveyor's instructions approved in Dl.No.363 P dt. 14-10-52.
				5003			9893	7196	2306	

ESTIMATE FORM.—Comparative Statement of Differences. P.W.D. V-18 (Inner)) - 64,172—3-6-49.

Description of work. (1)	Item No. (2)	Original estimate. Quantity. (3)	Original estimate. Rate. (4)	Original estimate. Amount. (5)	Revised estimate. Quantity. (6)	Revised estimate. Rate. (7)	Revised estimate. Amount. (8)	More. (9)	Less. (10)	Explanation of difference (11)
			Rs.	Rs.		Rs.	Rs.			
B.F.				5003			9893	7196	2306	
Manufacturing one 3' x 3" x 2'-6" Teak wood top table with 2" x 2" x ¼' angle iron welded frame with 2 Nos. of 1½ x 1½ angle iron members welded to it and fixing the table with bolts and nuts to the floor of the tide house.	17	--	--	--	1 No.	138-0-0	138	138	--	Additional work done as per requirement of officer surveyor approved in Dl.No.333 P dt. 14-10-52, and 290 P/13-8-52.
Making one triangular bore of base length 12'-0" and adjacent sides 7'-0" each and height 5'-0" with mango planks 3" thick including wooden reepers nailed to the bottom and also fixing angle iron spikes 4'-0" long 6 Nos. and 2 Nos. triangular iron plate shoes to bottom, conveyance to site and fixing in position and filling with Sand bags complete.	18	--	--	--	1 No.	464-0-0	464	464	--	Additional work done as per Executive Engineer's orders for protecting the piles from errosion of river bed at site Approved in Dl.No. 365 P dt. 15-10-52.
C.O.				5003			10495	7793	2306	
								(6)	(1)	p.t.o.

ESTIMATE FORM.—Comparative Statement of Differences.

P.W.D. V-18 (inner)—64,179—3-6-40

Description of work. (1)	Item No. (2)	Original estimate. Quantity. (3)	Rate. (4)	Amount (5)	Revised estimate. Quantity. (6)	Rate. (7)	Amount. (8)	More. (9)	Less. (10)	Explanation of difference. (11)
			RS.	RS.		RS.	RS.			
B.P.				5003			10495	7798	2306	
Hire charges for diving helmets 2 Nos. with weighing down chains, boses compressor and engin complete excluding fuel charges for 36 days From 3-6-52 to 8-7-52	19	--	--	--	1 set for 36 days	30-0-0 day	1080	1080	--	The diving suit was found quite necessary for carrying out splicing and bracing work under water approved in Dl.No.215 P/11-5-52
Hire charges for M.P.S. pump for 4 days and 3 hours for use as water jet for driving 12" dr. piles below 6'-0" in ~~department~~ depth under bed of river.	20	--	--	--	4 days 3 hours As per actuals	150-0-0 ~~15-0-0~~ day 15-0-0 hours	645	645	--	Used as water jet for driving piles below 6'-0" under bed of river. Approved in Dl.No.181 P dated 22-5-52.
Hire charges for two big country boats and one small size country boats from 8-5-52 to 14-6-52 for putting up derrecks and driving piles with monkey (38 days) at Rs.10/- each for big boat and 5 for small boat 10 10 5 = Rs 25 per day.	21	--	--	--	38 days	25	950	950	--	The boats had to be hired out for putting up derrecks for driving piles in water. Approved in Dl.No. 57 P/30-1-53.
				5003			13170	10473	2306	

ESTIMATE FORM.—Comparative Statement of Differences.

P.W.D. V-18 (Inner)) 64,17

Description of work.	Item No.	Original estimate.			Revised estimate.			More.	Less.	Explanation of difference
		Quantity.	Rate.	Amount.	Quantity.	Rate.	Amount.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
			RS.	RS. 5003		RS.	RS. 13170	10473	2306	
B.E.										
Petrol and Motor oil charges for Diving set engine.	22	--	--	--	L.S. as per actuals		214	214	--	As per actuals vide detailed sheet.
Providing thatched shed on the sand spit and at marine yard for storing materials and for carpenters to work	23	--	--	--	L.S.		150	150		As per actuals
Cost of bolts and nuts, of serveral sizes, washers V. Bolts, G.I. coupling etc. for water jet coir rope for tying derricks casurinas and bamboo poles etc.	24	--	--	--	L.S.	--	968	968	--	As per actuals vide detailed sheet.
Providing protection work to sand bank by Driving casurinas poles.	25	Total Departmental driver 99 Rft.					286	286	--	Quantity as per act vide details in det sheet.
Conveyance of materials from marine yard site to work site during monsoon season by engaging special boats, levelling the approach etc.	26			------ 5003	L.S.		312	312		
							15100	12403	2306	

ESTIMATE FORM.—Comparative Statement of Differences.

P.W.D. V-18 (inner)—64,179—3-6-49

Description of work. (1)	Item No. (2)	Original estimate. Quantity. (3)	Rate. (4)	Amount (5)	Revised estimate. Quantity. (6)	Rate. (7)	Amount. (8)	More. (9)	Less. (10)	Explanation of difference. (11)
			Rs.	Rs.		Rs.	Rs.			
B.F.				5003			15100	12403	2306	
Contingencies and P.S. charges	27	L.S.		247			400	153		
Total				5250			15500	12556	2306	
C.O.				5250			15500	12556	2306	

P.T.O.

ESTIMATE FORM.—Comparative Statement of Differences.

P.W.D. V-18 (inner)—64,179—3-6-49

Description of work. (1)	Item No. (2)	Original estimate. Quantity. (3)	Rate. (4)	Amount (5)	Revised estimate. Quantity. (6)	Rate. (7)	Amount. (8)	More. (9)	Less. (10)	Explanation of difference. (11)
			RS.-	RS.		RS. -	RS.	--	-	
B.F.			-	4546			7204	4807	2149	
			-			- -		--		
Splicing of piles more than 14 feet in length with C.W. battens and bolts.	13	L.S.	--	100	9 Nos 12"DR. piles	146-9-4 each	1319	1219	--	As per actuals. The work was done under water vide Data attached
Fixing all braces with bolts and ~~units~~ nuts including all other fittings with bolts and screws.	14	L.S.	--	200	42 joints	24-0-0	1008	808	--	Rate based on actuals Vide data sheet.
Unforeseen items	15	L.S.	--	157	--	--	--	--	157	
Fixing one 12'-0" length iron pipe 1'-0" dr. cut from 22'-0" pipe scraping and painting both inside and outside with red oxide paint 2 coats, making a flange and welding it to pipe at one end and closing bottom of pipe with iron plate and rubber washer and fixing necessary alamps at bottom and top including conveyance charges complete.	16	--	--	--	1 No.	362-0-0	362	362		Additional work done as per officer surveyor instructions approved in Dl.No.363 P dt. 14-10-52.
				5003			9893	7196	2306	

--5--

ESTIMATE FORM—Comparative Statement of Differences.

P.W.D. V-17.

Description of work. (1)	Item No. (2)	Original Estimate. Quantity. (3)	Rate. (4)	Amount. (5)	Revised Estimate. Quantity. (6)	Rate. (7)	Amount. (8)	More. (9)	Less. (10)	Explanation of difference. (11)
			Rs.	Rs.		Rs.	Rs.	Rs.	Rs.	
B.F.				5250			15500	12556	2306	
Total ..				5250			15500	12556	2306	
Deduct amount of estimate already sanctioned							5250			
Net amount requiring sanction							10250			

Sanctioned for Rs. (_____)_____

_____ only

in supersession of C.R. No._____ of _____

Executive Engineer.
South Kanara Division

Countersigned

Superintending Engineer.

MK 25/3/

State Port Officer

30

P.W.D. V.17 — 32,971—18-4-5(

STATE PORT OFFICE 4 APR 1953 MADRAS

E. No. 36.

Stage of Progress of the work.

Work nearly completed
Jarring to be done for gang way and Superstructure.

Signd
S.D.O Portwork.
27.3

CIRCLE— Coimbatore.

DIVISION— South Kanara.

DISTRICT— South Kanara

ESTIMATE FORM—Comparative Statement of Differences.

To accompany the Revised Estimate
D.R No. 114 of 1951-52 for *

constructing a tide house in connection with improvements to Mangalore Port.

Amount of original Estimate
DR No. 114/51-52 Rs. 5250/-

Amount of Reserved Estimate
Rs. 15500/-

Amount Requiring Sanction
Rs. 10250/-

27/3

* Here enter the name and description of work in full.

Plan S.K.No. 54/53

3/P. W.D/F)

Memo no 40819-F/53 dt 22.5.53

Subj: Ports - Mangalore - Improvements - Model experiments - Construction of tide house - Revised Estimate.

Ref: From the S.P.O no. 65.SD/53.22 dt 30-4-53

The S.P.O is requested to state whether the revised estimate for Rs 15,500/- submitted with his letter cited for the above work is inclusive of the sum of Rs 5,750/- sanctioned vide Govt no 1240-PW dt 23-3-53 for providing protection works to the tide house.

21/5/53

18/5/53

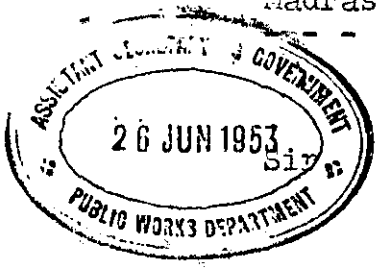
To

The S.P.O.

58236

From
A. Mudie Esq.,
State Port Officer,
Post Box No.13,
Madras-1.

To
The Secretary to Government,
Public Works Department,
Madras.



No.253-SD/53-11 dated 25th June 1953.

Sir

Sub:-Ports - Mangalore - Improvements - Model experiments - Construction of a tide house - Revised estimate for Rs.15,500/-.
Ref:-Covernment Memo No.40819-F/53 P.W., dated 22-5-1953.

The Executive Engineer, P.W.D., South Kanara Division, Mangalore reports that the revised estimate for Rs.15,500/- for the "Construction of tide house" is exclusive of the sum of Rs.5,750/- for the work of providing protection work to the tide house sanctioned in G.C.Ms.No.1240,P.W., dated 23-3-53.

Yours faithfully,

State Port Officer.

MR.25.

4081 PF/53

P.W.D. (F).

Sub: Ports - Mangalore - Improvements Construction of Tide House in connection with model experiments - Revised Estimate for Rs.15,500 Approved.

Ref: G.O.Ms.No.405, P.W. dated 1-2-52.
From the S.P.O., No.65-SD/53-22, dated 30-4-1953.
— do — No.253-SD/53-11 dt 15-6-53

G.O.Ms.No. 2949 Dt. 11-7-1953.

The Govt. sanction the revised estimate amounting to Rs.15,500/- (Rs. Fifteen thousand five hundred only) for the work of constructing a tide house in connection with the model experiments conducted at Poona, for improvements to the Port of Mangalore in supersession of the estimate for Rs.5,250/- (Rupees Five thousand two hundred and fifty only) sanctioned in the first read above.

2. The expenditure is debitable to the State Minor Ports Fund.

To the S.P.O.
(with estimate & Plan)
To the Exr. of L.F. ACCTS.
To the C.E., P.W.D. (Bldgs.)

(3 spare copies)

PW(F)

Sub:- Ports - Bangalore - Improvements - Construction of Tide House in connection with model experiments - Revised estimate - Approved.

P1 Sch (U) pp 1-29 Sch

Read:- G.O.Ms.:-405 PW dt. 1.2.52.
From the S.P.O. No. 65-SD./53-22 dt. 30.4.53

G.O.Ms.

Para 1:- P1 Sch

The Govt. sanction the revised estimate amounting to Rs. 15,500/= (Rupees Fifteen Thousand and five hundred only) for the work of construction of Tide house in connection with the model experiments conducted at Poona, for improvements to the Port of Bangalore, in supersession of the estimate for Rs. 5250/- (Rupees Five thousand two hundred and fifty only) sanctioned in the G.O. first read above.

Final-P1 Sch (U)

2) ~~The expre should be debited to the Minor Ports Fund.~~

2. The expre. is debitable to the State Minor Ports Fund.

To
The S.P.O. Bangalore (with estimate + plans) (Y)
The A.G. & L.F.A.
The Dy. C.E. (PWD) Bangalore
~~Copy forwarded to the State~~
3 Sets

7553
5.5.53
bti
7553
6.5.53

Note:- The reasons for the increase are explained in the report accompanying the revised estimate at pp 5-6 Sch. In the circumstances mentioned therein the revised estimate may be sanctioned. Draft above is for approval

pp 5-6 Sch

7553
5.5.53
7553
6.5.53

Is this estimate inclusive of the cost of

2

Rs.5750 sanctioned in G.O.Ms.No.1240 P.W. dated 23.3.53 for providing protection works to the tide-house.

8.5.53

Submitted that the work of construction of a tide house and the work of providing protection works to the tide house appear to have been treated as two different items of works and as such, it does not appear that the sum of Rs.5750 sanctioned in G.O.Rs 1240 P.W.d 23.3.53 for providing protection works to the tide house, is contemplated to be included in the revised estimate for the construction of the tide house.

p 13 of (V)

p 13 CF (R)

p 18 CF of (R)

PP 13.29 CF

Yes
15.5.53

The file may be called for if necessary

15.5.53

11.5.53

15533

DS

Draft memo submitted for approval.

18.5.53

21/53

Issued as Memo No. 40819 F/53 dt 22-5-53 p 31 CF

From SPO Lr.No. 253-SD/53-11 dt 25.6.53 p 33 CF

PT

P.W.D. (F-1)

p15cf (U) In G.O.Ms.No.405, P.W. dated 1-2-1952, the Govt sanctioned an estimate amounting to Rs.5,250/- for construcing a tide house in connection with the model experiments conducted at Poona, for improvements to the Port of Mangalore. The State Port Officer has now submitted a revised estimate amounting to Rs.15,500/- for the above work. The necessity for revising the original estimate is explained at pp.5-6 c.f. The revised estimate does not include the sum of Rs.5,750/- sanctioned in G.O.No.1240, P.W. dated 23-3-1953 for providing protection works to the tide house. Provision exists for the above work in the Budget Estimate of the Minor Ports Fund for 1953-54. A clean copy of the draft on p.1 ante is put up. It may issue after circulation to M.(P.W.).

p33cf

p15cf (R)

p12 & (Q) para 2, p1cf

K.L. 6.7.53 Fin 6.7.53

Y. Ramaiah 7/7/53 A.S. P.W.D.

V. Venkatarayudu 7.7.53

M(P.W) N. Ranga Reddy 11.7.53

C.in (14)8/7.